

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits   | Search Query   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|-----------------|------------------|---------|------------------|
| L1    | 53108  | (sputter\$3 or spatter\$3 or pvd or ipvd or (vapor near1 deposit\$3)) with (target or cathode)   | US-PGPUB; USPAT | ADJ              | ON      | 2011/08/23 07:08 |
| L2    | 867524 | (backing or support\$3 or holding) with (plate or section)   | US-PGPUB; USPAT | ADJ              | ON      | 2011/08/23 07:12 |
| L3    | 614    | I1 same I2 same (cu or copper)   | US-PGPUB; USPAT | ADJ              | ON      | 2011/08/23 07:12 |
| L4    | 392    | I3 and "204".clas.   | US-PGPUB; USPAT | ADJ              | ON      | 2011/08/23 07:12 |
| S1    | 50     | ("20070051624" "4966676" "6000853" "6178639" "4296183" "5209578" "4292718" "4767677" "4770547" "5190717" "6332909" "20070270306" "6071389" "5593082" "5653856" "5879524" "6183686" "5268236" "6113761" "5032468" "5244556" "5282943" "5338425" "5397050" "5674367" "5836506" "6073830" "6331234" "6344117" "6478902" "6521108" "6579431" "6619537" "6645427" "6709557" "6723213" "6759143" "6774339" "6793124" "6849139" "6858102" "7314650" "7347353" "7431195" "7480992" "20010047935" "20020112791" "20020121437" "20020153130" "20030134143" ).pn. | US-PGPUB; USPAT | OR               | ON      | 2009/03/26 17:41 |

|     |       |   |                    |     |     |                     |
|-----|-------|---|--------------------|-----|-----|---------------------|
| S2  | 7     | ((("6793124") or ("20030116425") or ("20050121320") or ("20050285273") or ("20060088436") or ("5269899") or ("6361662"))).PN. | US-PGPUB;<br>USPAT | OR  | OFF | 2009/03/26<br>17:43 |
| S3  | 0     | ep-0881311-\$ did.  | DERWENT            | ADJ | ON  | 2009/03/26<br>17:43 |
| S4  | 1     | ep-881311-\$ did.   | DERWENT            | ADJ | ON  | 2009/03/26<br>17:43 |
| S5  | 5     | jp-03134170-\$ did. or jp-03079734-\$ did. or jp-01180975-\$ did. or jp-11236665-\$ did. or jp-2001329362-\$ did.             | JPO                | ADJ | ON  | 2009/03/26<br>17:45 |
| S6  | 1     | wo-0100899-\$ did.  | DERWENT            | ADJ | ON  | 2009/03/26<br>17:45 |
| S7  | 2     | 10/027992.app.  | US-PGPUB;<br>USPAT | OR  | ON  | 2009/03/26<br>17:55 |
| S8  | 1     | "6478895".pn. and (Ni-7 near1 v)  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>18:03 |
| S9  | 29687 | (sputter or sputtering) with target   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>18:27 |
| S10 | 3694  | S9 same (backing or plate)  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>18:27 |
| S11 | 44024 | (cu or copper) same (silicon or si) same (nickel or Ni)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>18:27 |
| S12 | 366   | S10 and S11   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>18:27 |
| S13 | 39    | S10 same S11  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>18:28 |
| S14 | 2     | 09/226678.app. or 09/868407.app.  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>22:20 |
| S15 | 13    | bolcavage.in.   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>22:24 |
| S16 | 2     | bolcavage.in. and (diffusion near1 bonding).ti.   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>22:24 |
| S17 | 10418 | (sputter or sputtering or spatter or spattering) with target  | JPO                | ADJ | ON  | 2009/03/26<br>22:30 |
| S18 | 10624 | (cu or copper) same (ni or nickel) same (si or silicon)   | JPO                | ADJ | ON  | 2009/03/26<br>22:30 |
| S19 | 42    | S17 and S18   | JPO                | ADJ | ON  | 2009/03/26<br>22:30 |

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| S20 | 816778 | (backing near1 plate) or<br>backing or plate   | JPO                | ADJ | ON  | 2009/03/26<br>22:31 |
| S21 | 8      | S19 and S20  | JPO                | ADJ | ON  | 2009/03/26<br>22:31 |
| S22 | 4882   | (cu or copper) same (ni<br>or nickel) same (si or<br>silicon) same (wt or<br>weight or atomic or at)                           | JPO                | ADJ | ON  | 2009/03/26<br>22:48 |
| S23 | 4      | S22 and S20 and<br>(sputter or sputtering or<br>spatter or spattering)   | JPO                | ADJ | ON  | 2009/03/26<br>22:49 |
| S24 | 1      | jp-07268617-\$ did.  | DERWENT            | ADJ | ON  | 2009/03/26<br>22:50 |
| S25 | 1      | 1995-390791.NRAN.  | DERWENT            | ADJ | ON  | 2009/03/26<br>22:50 |
| S26 | 0      | (hao near1 zhang).in.  | DERWENT            | ADJ | ON  | 2009/03/26<br>22:51 |
| S27 | 74     | (hao near1 zhang).in.  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>22:52 |
| S28 | 11     | (hao near1 zhang).in.<br>and (sputter or<br>sputtering)  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/26<br>22:52 |
| S29 | 2      | ("3662745") or<br>("5018180").PN.  | US-PGPUB;<br>USPAT | OR  | OFF | 2009/03/26<br>23:51 |
| S30 | 1      | jp-01180975-\$ did.  | DERWENT            | ADJ | ON  | 2009/03/27<br>13:10 |
| S31 | 1      | 1989-246544.NRAN.  | DERWENT            | ADJ | ON  | 2009/03/27<br>13:11 |
| S32 | 871    | tosoh.as.  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/27<br>13:27 |
| S33 | 157    | S32 and (sputter or<br>sputtering)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/27<br>13:27 |
| S34 | 57     | S33 and (backing near1<br>plate)   | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/27<br>13:27 |
| S35 | 14     | S33 and ((backing near1<br>plate) same (ni or<br>nickel))  | US-PGPUB;<br>USPAT | ADJ | ON  | 2009/03/27<br>13:27 |
| S36 | 3      | ((copper or cu) with<br>(back or backing)) and<br>(sputter or sputtering or<br>spatter or spattering)<br>and (beryllium or be) | JPO                | ADJ | ON  | 2009/11/03<br>16:02 |
| S37 | 42     | (copper or cu) and<br>(sputter or sputtering or<br>spatter or spattering)<br>and (beryllium or be)                             | JPO                | ADJ | ON  | 2009/11/03<br>16:09 |
| S38 | 39     | S37 not S36  | JPO                | ADJ | ON  | 2009/11/03<br>16:09 |

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| S39 | 54   | ((copper or cu) with (back or backing)) and (sputter or sputtering or spatter or spattering) and (beryllium or be) | EPO,<br>DERWENT    | ADJ | ON | 2009/11/03<br>16:25 |
| S40 | 1    | jp-63004093-\$ did.  | JPO                | ADJ | ON | 2009/11/03<br>18:26 |
| S41 | 1    | jp-01180975-\$ did.  | JPO                | ADJ | ON | 2009/11/03<br>18:26 |
| S42 | 3    | ford.in. and ((sputter or sputtering) with target) and monolithic  | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/24<br>13:07 |
| S43 | 1696 | ((sputter or sputtering) with target) and (backing near1 plate)  | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/24<br>13:29 |
| S44 | 60   | S43 and (interlayer same target same plate)  | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/24<br>13:29 |
| S45 | 1    | jp-01180976-\$ .did.   | JPO                | ADJ | ON | 2010/08/25<br>12:52 |
| S46 | 29   | ((TAKEO) near2 (OKABE).INV.  | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/25<br>13:06 |
| S47 | 30   | ((HIROHITO) near2 (MIYASHITA).INV.   | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/25<br>13:06 |
| S48 | 19   | (S46 or S47) and (Nickel or ni) and (silicon or Si)  | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/25<br>13:08 |
| S49 | 0    | (S46 or S47) and ((Nickel or ni) and (silicon or Si) and (backing or back))"clm."                                  | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/25<br>13:08 |
| S50 | 1    | (S46 or S47) and ((Nickel or ni) and (silicon or Si) and (backing or back)).clm.                                   | US-PGPUB;<br>USPAT | ADJ | ON | 2010/08/25<br>13:14 |
| S51 | 1    | 10/596653.app.   | US-PGPUB;<br>USPAT | ADJ | ON | 2011/02/25<br>12:25 |
| S52 | 1137 | (copper or cu) with backing with plate   | US-PGPUB;<br>USPAT | ADJ | ON | 2011/02/25<br>13:04 |
| S53 | 340  | S52 and (ni or nickel) and (si or silicon or silicide)   | US-PGPUB;<br>USPAT | ADJ | ON | 2011/02/25<br>13:04 |
| S54 | 44   | S52 same (ni or nickel) same (si or silicon or silicide)   | US-PGPUB;<br>USPAT | ADJ | ON | 2011/02/25<br>13:04 |
| S55 | 803  | 204/298.13.ccls.   | US-PGPUB;<br>USPAT | ADJ | ON | 2011/02/25<br>13:09 |
| S56 | 219  | 204/298.13.ccls. and (copper or cu) and (si or silicon or silicide) and (ni or nickel)                             | US-PGPUB;<br>USPAT | ADJ | ON | 2011/02/25<br>13:10 |

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| S57 | 219  | 204/298.13.ccls. and (copper or cu) and (si or silicon or silicide) and (ni or nickel)    | US-PGPUB; USPAT | ADJ | ON | 2011/02/25 13:11 |
| S58 | 1197 | (cu or copper) with backing   | JPO; DERWENT    | ADJ | ON | 2011/02/25 14:15 |
| S59 | 100  | S58 and (ni or nickel) and (si or silicon or silicide)                                    | JPO; DERWENT    | ADJ | ON | 2011/02/25 14:15 |
| S60 | 45   | S58 and (ni or nickel) and (si or silicon or silicide) and (tin or sn)                    | JPO; DERWENT    | ADJ | ON | 2011/02/25 14:56 |
| S61 | 5241 | (cu or copper) and (be or beryllium) and backing  | JPO; DERWENT    | ADJ | ON | 2011/02/25 16:37 |
| S62 | 3266 | (cu or copper) and (be or beryllium) and backing and (ni or nickel) and (co or cobalt)    | JPO; DERWENT    | ADJ | ON | 2011/02/25 16:38 |
| S63 | 48   | ((cu or copper) with backing) and (be or beryllium) and (ni or nickel) and (co or cobalt) | JPO; DERWENT    | ADJ | ON | 2011/02/25 16:38 |
| S64 | 34   | S63 not S60   | JPO; DERWENT    | ADJ | ON | 2011/02/25 16:38 |

**EAST Search History (Interference)**

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